Factorize any FIVE of the following

(i)
$$4(x + 2y)^2 - 9$$
 ($x + 7y^2$)

(iii) $a^2 - b^2 + 6ac$

(v) $a^3 - 2 + 11$

(vi) $a^3 - 2 + 12$

(vi) $a^3 - 2 + 13$

(i)
$$4(x + 2y)^2 - 9(x + y)^2$$
 (ii) $a^2 + b^2 + b^2$

(vii)
$$a^3$$
 ($b^2 - c^2$) + b^4 (c^2)

Q - 16

(vii)
$$a^3$$
 ($b^2 - c^2$) + b^4 (c^2) (a) Construct a triang

(vii)
$$a^3$$
 ($b^2 - c^2$) + b^4 (c^2

(vii)
$$a^3 (b^2 - c^2) + b^4 (c^2 - a^2) + c^4 (a^2 - b^2)$$

(a) Construct a triangle ABC such that m

(vii)
$$a^3$$
 ($b^2 - c^2$) + b^4 (c^2

(vii)
$$a^3$$
 (b^2 - c^2) + b^4 (c^2 - a^2) + c^4 (a^2 - b^2)
(a) Construct a triangle ABC such that m? \overline{AB} = 3.6 cm, m \overline{BC} = 4cm

and
$$m\overline{A}\overline{C} = 5.2$$
 cm. shwo that its median are concurrent.

Q - 18 (a) if A =
$$\begin{vmatrix} 1 & 4 \\ 3 & 5 \end{vmatrix}$$
 and B = $\begin{vmatrix} 6 & 3 \\ 2 & -1 \end{vmatrix}$ then shwo that A² - B² \neq (A + B)

(A - B).

$$Log_a = \frac{4\sqrt{5}}{2} \frac{10\sqrt{2}}{18} = \frac{1}{4} Log_a 5 - \frac{11}{5} Log_a 2 - \frac{2}{3} Log_a 3$$

(b) Derive with the help of right angle triangle: $tan^2\theta + 1 = sec^2\theta$